

**Notice of Allowability**

Application No.

09/680,419

Examiner

Nhon (Gary) D. Nguyen

Applicant(s)

SUETSUGU ET AL.

Art Unit

2179

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment after final filed 01/05/2006.
2. ☒ The allowed claim(s) is/are 9-14, 18 and 19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant Representative Nataliya Dvorson on 01/18/2006.

2. The application has been amended as follows:

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

9. (previously presented): A display drafting method comprising:

selecting a signal or data of a controlled system, where the signal or the data is stored in a memory of a controller and the controller controls operations of the controlled system; and

setting up a display drafting information for said selected signal or data after said signal or data is selected,

wherein said selected signal or data is used in display drafting and in a design of a control program for said controller, the design of a control program is performed separately from the display drafting,

wherein the control program for the controller is designed using a ladder diagram, and

wherein the selected signal or data is stored in a shared memory accessible to both the control program and the display drafting program.

10. (previously presented): The display drafting method according to claim 9, wherein said selecting the signal or data further comprises selecting a signal or data symbol and selecting a signal or data number.

11. (previously presented): The display drafting method according to claim 9, wherein said setting up the display drafting information further comprises setting up a display component, display mode and display function.

12. (previously presented): The display drafting method according to claim 10, further comprising changing at least one of said signal or data symbol and said signal or data number after setting up part of said display drafting information.

13. (previously presented): The display drafting method according to claim 9, further comprising interrupting said setting up the display drafting information to save data of said display drafting information.

14. (previously presented): The display drafting method according to claim 9, further comprising interrupting said selecting of signal or data to save data of said signal or data selection information.

15.-17. (canceled).

18. (previously presented): The display drafting method according to claim 9, wherein the signal or data is one of an input signal, an output signal, an auxiliary signal, a count value, a timer value, and a numerical data of a controlled system, the programmable controller is configured to control the operation of the controlled system.

19. (currently amended): A display drafting method comprising:

selecting a signal or data of a controlled system, where the signal or the data is stored in a memory of a controller and the controller controls operations of the controlled system; and  
setting up a display drafting information for said selected signal or data after said signal or data is selected,

wherein the signal or data is one of an input signal, an output signal, an auxiliary signal, a count value, a timer value, and a numerical data of a controlled system, the programmable controller is configured to control the operation of the controlled system, and

wherein the controlled system is a production line, and

wherein said selected signal or data is used in display drafting and in a design of a control program for said controller, the design of a control program is performed separately from the display drafting.

*Allowable Subject Matter*

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3. Claims 9-14, 18 and 19 are allowed.

4. The following is an examiner's statement of reasons for allowance:

(a) As per independent claim 9, the prior art made of record fails to anticipate or make obvious the claimed invention. Specifically, the prior art fails to teach, in combination with the remaining elements:

selected signal or data is used in display drafting and in a design of a control program for said controller, the design of a control program is performed separately from the display drafting, and the control program for the controller is designed using a ladder diagram

(b) As per independent claim 19, the prior art made of record fails to anticipate or make obvious the claimed invention. Specifically, the prior art fails to teach, in combination with the remaining elements:

selected signal or data is used in display drafting and in a design of a control program for said controller, the design of a control program is performed separately from the display drafting, and the controlled system is a production line.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Inquiries*

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon (Gary) D. Nguyen whose telephone number is (571)272-4139. The examiner can normally be reached on Monday - Friday with every other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571)272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nhon (Gary) Nguyen  
February 2, 2006



**WEILUN LO**  
**SUPERVISORY PATENT EXAMINER**